Aquarium Solutions® Liquid PraziPro®

SAFE & EFFECTIVE DISEASE CONTROL FOR FRESHWATER & MARINE AQUARIUMS

PRODUCT CODES: 73251 – 1 fl. oz, 73254 – 4 fl. oz, 73256 – 16 fl. oz and 73258 - gallon

PURPOSE AND BENEFITS

Aquarium Solutions® Liquid PraziPro® is colorless, liquid disease treatment that has been scientifically formulated for use in garden ponds. **Aquarium Solutions® Liquid PraziPro®** use is indicated when treating fishes for diseases and conditions caused by organisms of the phylum Platyhelminthes (flatworms, turbellarians, flukes and tapeworms). **Aquarium Solutions® Liquid PraziPro®** can be used to prevent and control these diseases.
The benefits of **Aquarium Solutions® Liquid PraziPro®** are numerous. It is harmless to all fish species, including cichlids (e.g. discus, angelfish and Rift Lake species), cyprinids (e.g. goldfish, koi, barbs and danios), catfishes (e.g. suckermouths ("plecos") and Corydoras species), and marine (saltwater) species (e.g. angelfishes, anemonefishes, tangs, cardinalfishes and lionfishes). Additionally, **Aquarium Solutions® Liquid PraziPro®** is safe for use on fish fry and it is nontoxic to aquatic plants and has no known detrimental effects on established biological filtration. The active ingredient in **Aquarium Solutions® Liquid PraziPro®**, praziquantel, is readily absorbed by the fishes from the treated water.

DISEASE TREATMENT; GENERAL CONSIDERATIONS

In general, bath treatments with therapeutants are not considered to be best possible methods for treating and controlling both external and systemic (internal) diseases of fishes. Additionally, many fish disease treatments used in aquariums and ponds are (1) detrimental to the biological filtration (e.g. methylene blue and erythromycin), (2) inadequately absorbed from the water (e.g. most antibiotics), (3) readily inactivated in the water (e.g. antibiotics), (4) have therapeutic concentrations that are very close to known toxic levels (e.g. hydrogen peroxide, trichlorfon and potassium permanganate), (5) are toxic to aquatic invertebrates (e.g. copper and trichlorfon) and/ or plants.

DISEASE TREATMENT; SPECIFIC CONSIDERATIONS

The active ingredient in **Aquarium Solutions® Liquid PraziPro®** is praziquantel, a substance that has a very low solubility in water, making it very difficult to use in its pure form. **Aquarium Solutions® Liquid PraziPro®** is formulated in a liquid form so that when added to water the active ingredient is more easily distributed and dispersed in the treated water. To aid dispersion **Aquarium Solutions® Liquid PraziPro®** should be poured directly into the filter of the aquarium or pond.
To prolong the effectiveness of **Aquarium Solutions® Liquid PraziPro®** all activated carbon (GAC) filtration should be removed and foam fractionation (protein skimming) and ultraviolet (UV) filters must be turned off until the treatment is complete. Treatment should be allowed to proceed for at least 24 hours, but three to five days between treatments is recommended. Keep all other filtration running during the treatment. Effectiveness of the treatment can be determined by the overall appearance and behavior (e.g. cessation of scratching and flashing as well as the healing of wounds and lesions that had been caused by the disease) of the treated fishes. A follow-up microscopic examination of the diseased fishes and/or their feces will help confirm the success of the treatment. Typically, only one or two treatments are needed.
The overall cleanliness of the pond is important in treating with **Aquarium Solutions® Liquid PraziPro®**. The removal of dead plant matter, uneaten feed, and mulm from the bottom of the aquarium will help prevent the adsorption of the active ingredient into this accumulated organic matter.
Aquarium Solutions® Liquid PraziPro® will not affect dissolved oxygen (DO) concentration in the treated water. The addition of **Aquarium Solutions® Liquid PraziPro®** may temporarily depress ORP readings due to the fact that the product is 100% organic.

SPECIFICATIONS

Aquarium Solutions® Liquid PraziPro® is colorless, liquid product that contains praziquantel in an inert organic solubilizing agent that allows the product to be easily dosed for both small and large volumes of water with little concern of wasting product by accidental overdosing.
Dosage: For treatment of praziquantel-susceptible disease conditions in freshwater and marine aquariums and ornamental pond fishes start the bath treatment with as large a partial water change as possible in the pond to be treated. Condition new water with **Aquarium Solutions® Ultimate®** or **Aquarium Solutions® Stress-X®** plus **Liquid Buffered Aquarium Solutions® ClorAm-X®** to remove ammonia, chlorine and chloramines. Add **Aquarium Solutions® Liquid PraziPro®** at the rate of one (1) ounce per 125 gallons of water. This produces a concentration of 2.5 mg/L, of the active ingredient, in the treated water. Distribute around the edge of the aquarium or pour directly into the aquarium filter to achieve maximum distribution in the water. **Aquarium Solutions® Liquid PraziPro®** is safe enough to be re-dosed on a

daily basis (especially important in an aquarium that has not been properly cleaned prior to the start of the treatment), with partial water changes before each re-dosing. Each single treatment may extend for three to five days before re-treatment. **Aquarium Solutions® Liquid PraziPro®** contains oxybispropanol (as an inert solubilizing agent) and <7% praziquantel, by weight.

CONTRAINDICATIONS
Do not use **Aquarium Solutions® Liquid PraziPro®** in water that has been treated with potassium permanganate or other permanganate salts. Do not use with any other drugs or treatments, including water conditioners other than those recommended for use, without first determining the safety of combining treatments.
There are no other known contradictions to the use of **Aquarium Solutions® Liquid PraziPro®** except for its use in marine (saltwater) systems where flatworms of the Polycladida order (e.g. Pseudoceros spp. And Thysanozoon spp.) are being cultured. Use with salt levels above 0.20% can cause the product to be less effective.

STABILITY
Aquarium Solutions® Liquid PraziPro® is stable indefinitely if kept well closed when not in use. A nominal 2.5-year expiration dating, from the date of manufacture, is used on the product.

COMPATIBILITIES
WITH OTHER WATER ADDITIVES: **Aquarium Solutions® Liquid PraziPro®** is compatible with **Aquarium Solutions® Ultimate®**, **Liquid Buffered Aquarium Solutions® ClorAm-X®** and **Aquarium Solutions® Stress-X®** as well as with most other water conditioners that are not sulfur or sulfinite-based. **Aquarium Solutions® Liquid PraziPro®** is compatible with all commercial synthetic salt mixes as well as with specialized electrolyte mixes used in freshwater systems. WITH TEST KITS: **Aquarium Solutions® Liquid PraziPro®** is compatible with all known aquarium and pond test kits (including Nessler's total ammonia and Winkler dissolved oxygen).

TOXICITIES
Aquarium Solutions® Liquid PraziPro® is not known to be toxic to any commonly kept aquarium plants and animals when used as directed. Store the undiluted product away from food and feed and prevent pets from ingesting the liquid. Avoid skin and eye contact. In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. In case of skin contact, wash with soap and plenty of water. If swallowed, rinse mouth with water (only if the person is conscious). Obtain medical advice.

PACKAGING
Aquarium Solutions® Liquid PraziPro® is packaged in convenient 1 fl. oz, 4 fl. Oz, 16 fl. oz and gallon containers. All containers are recyclable.

CONTACTING US
For questions or comments:
Hikari Sales USA, Inc.
Hayward, CA 94545-1663
(800) 621-5619
e-mail: fish@hikariusa.com
web site: www.hikariusa.com